Patent Claims

1. A method for planning an infusion, wherein patient data are captured and the infusion to be carried out is planned using said patient data.

2. The method as set forth in claim 1, wherein at least one infusion device is positioned using said patient data.

3. The method as set forth in claim 2, wherein said infusion device is positioned on a body with respect to the infusion location and/or to the depth of penetration into said body.

4. The method as set forth in any one of the preceding claims, wherein said patient data are captured by a magnetic resonance method (MRI), a computer tomography method (CT), an x-ray method or an ultrasound method.

5. The method as set forth in any one of the preceding claims, wherein patient parameters are obtained from said captured patient data and are used for planning said infusion.

6. The method as set forth in claim 5, wherein information on the tissue structure, tissue density, blood flow and/or metabolic properties of said tissue is used as said patient parameters.

7. The method as set forth in any one of the preceding claims, wherein parameters of said infusing medium, defining chemical, biological and/or physical properties of said infusing medium, are used for planning said infusion.

8. The method as set forth in any one of the preceding claims, wherein catheter parameters are used for planning said infusion.

9. The method as set forth in any one of the preceding claims, wherein the distribution of said infusing medium is simulated based on said patient parameters, catheter parameters and said parameters of said infusing medium.

10. The method as set forth in any one of the preceding claims, wherein a target volume and/or a distribution of infusing medium in the patient is pre-set, and the catheter parameters and parameters of said infusing medium required for this are determined on the basis of these.

11. A computer program which may be loaded in the memory of a computer, and includes sections of software code with which the steps in accordance with any one of claims 1 to 10 may be performed when said program is running on a computer.

12. A computer program product which is stored on a computer-compatible medium and which comprises the computer program according to claim 11.

13. A device for planning an infusion, comprising a patient data capturing system (3) and a computer system (1) for carrying out planning based on said captured patient data.

14. The device as set forth in claim 13, comprising a navigation system (2) for positioning at least one catheter, based on said planning data.

15. A method for carrying out an infusion, wherein said infusion is planned and then carried out.

16. The infusion method as set forth in claim 15, wherein said infusion is planned in accordance with any one of claims 1 to 10.

17. The method as set forth in any one of claims 15 or 16, wherein the actual infusion data are compared with the planned infusion data.

18. The method as set forth in claim 17, wherein deviations between said planned and said actual infusion data are determined.

19. The method as set forth in claim 18, wherein the infusion parameters are corrected, based on said determined deviations.

20. A computer program which may be loaded in the memory of a computer, and includes sections of software code with which the steps in accordance with any one of claims 15 to 19 may be performed when said program is running on a computer.

21. A computer program product which is stored on a computer-compatible medium and which comprises the computer program according to claim 20.

22. A device for carrying out an infusion, comprising a verification device for comparing planned infusion data with actual infusion data.

23. The device as set forth in claim 22, comprising a correcting device for correcting deviations between said actual infusion data and said planned infusion data.

Abstract

The present invention relates to: a method for planning an infusion, wherein patient data are captured and the infusion to be carried out is planned using the captured patient data; and to a computer program which may be loaded in the memory of a computer and which includes sections of software code with which the method is performed when the program is running on a computer; and to a device for planning an infusion, comprising a patient data capturing system and a computer system for carrying out planning based on the captured patient data; to a method for carrying out an infusion, wherein the infusion is planned and then carried out; and to a device for carrying out an infusion, comprising a verification device for comparing planned infusion data with actual infusion data.